

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 06315104
 PUBLICATION DATE : 08-11-94

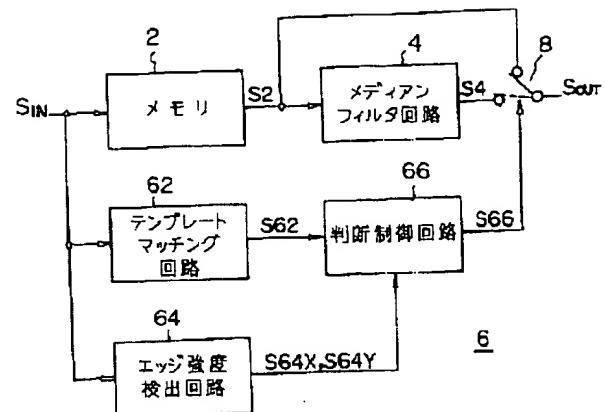
APPLICATION DATE : 31-08-93
 APPLICATION NUMBER : 05216755

APPLICANT : SONY CORP;

INVENTOR : KONDO TETSUJIRO;

INT.CL. : H04N 5/21 H03H 17/02 H04N 5/93

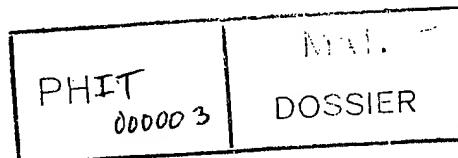
TITLE : FILTER CIRCUIT



ABSTRACT : PURPOSE: To provide the filter circuit in which the picture quality of an edge part, etc., are not deteriorated by executing a filter processing.

CONSTITUTION: The filter circuit is provided with a video data memory 2, a median filter circuit 4 for selecting and outputting a middle value, a noise detecting/discriminating circuit 6, and a switch circuit 8. The noise detecting/ discriminating circuit 6 consists of a template matching circuit 62, an edge strength detecting circuit 64 and a decision control circuit 66. The template matching circuit 62 detects an impulsive noise by applying a second order differential operator to a video input signal S_{IN}. The edge strength detecting circuit 64 detects an edge part by applying a first order differential operator to the video input signal S_{IN}. The decision control circuit 66 outputs an output of the median filter circuit 4 through the switch circuit 8, only in the case a noise is detected, and that which is detected as its noise is not an edge, and outputs a value of the video input signal S_{IN} as it is, when a noise is not detected.

COPYRIGHT: (C)1994,JPO



BEST AVAILABLE COPY